



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :

G06F 17/30

A1

(11) International Publication Number:

WO 00/28440

(43) International Publication Date:

18 May 2000 (18:05.00)

(21) International Application Number: PCT/US99/26125

(22) International Filing Date: 5 November 1999 (05.11.99)

(30) Priority Data:

60/107,463

6 November 1998 (06.11.98)

US

(71) Applicant (for all designated States except US): THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK [US/US]; Broadway & 116th Street, New York, NY 10027 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PAEK, Seungyup [KR/US]; 530 Riverside Drive, Apt. 6J, New York, NY 10027 (US). BENITEZ, Ana [ES/US]; 400 West 119th Street, Apt. 9F, New York, NY 10027 (US). CHANG, Shih-Fu [-/US]; 560 Riverside Drive, Apt. 18K, New York, NY 10027 (US).

(74) Agent: TANG, Henry; Baker & Botts, LLP, 30 Rockefeller Plaza, New York, NY 10112-0228 (US).

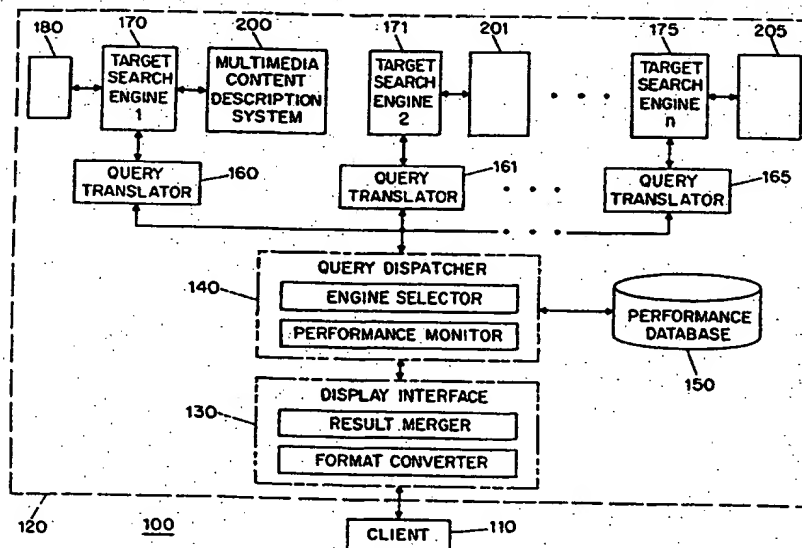
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: SYSTEMS AND METHODS FOR INTEROPERABLE MULTIMEDIA CONTENT DESCRIPTIONS



(57) Abstract

Systems and methods for generating standard description records from multimedia information are provided. The system includes at least one multimedia information input interface (180) receiving multimedia information, a computer processor, and a data storage system (150), operatively coupled to said processor, for storing said at least one description record. The processor performs object extraction processing to generate multimedia object descriptions (200, 201, 205) from the multimedia information, and object hierarchy processing (410, 420) to generate multimedia object hierarchy descriptions, to generate at least one description record including the multimedia object descriptions (200, 201, 205) and multimedia object hierarchy descriptions for content embedded within the multimedia information.